INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/019280

Int.Cl ⁷ C23C2/28, C23C2/06, C22C38/00, C22C38/06, C22C38/58, C21D9/46 According to International Patent Classification (IPC) or to both national classification and IPC			
B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols) Int.Cl ⁷ C23C2/00-C23C2/40, C22C38/00, C22C38/06, C22C38/58, C21D9/46			
Jitsuyo Kokai Ji	tsuyo Shinan Koho 1971-2005 Ji	oroku Jitsuyo Shinan Koho tsuyo Shinan Toroku Koho	1994-2005 1996-2005
Electronic data o	ase consulted during the international search (name of	data base and, where practicable, search te	rms used)
C. DOCUMENT	S CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
Х	JP 2002-47547 A (Kawasaki Steel Corp.), 15 February, 2002 (15.02.02), Examples; table 1; column 8, lines 24 to 28 (Family: none)		1,3
Х	JP 2001-303178 A (Sumitomo M Ltd.), 31 October, 2001 (31.10.01), Examples; table 1; column 14, (Family: none)		2,4
Further documents are listed in the continuation of Box C. See patent family annex.			
"A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed		"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family	
Date of the actual completion of the international search 29 March, 2005 (29.03.05)		Date of mailing of the international search report 19 April, 2005 (19.04.05)	
Name and mailing address of the ISA/ Japanese Patent Office		Authorized officer	
Facsimile No. Telephone No. Torm PCT/ISA/210 (second sheet) (January 2004)			